

# 09. Medium-fi Prototype #3 and Usability Study



# Our Team



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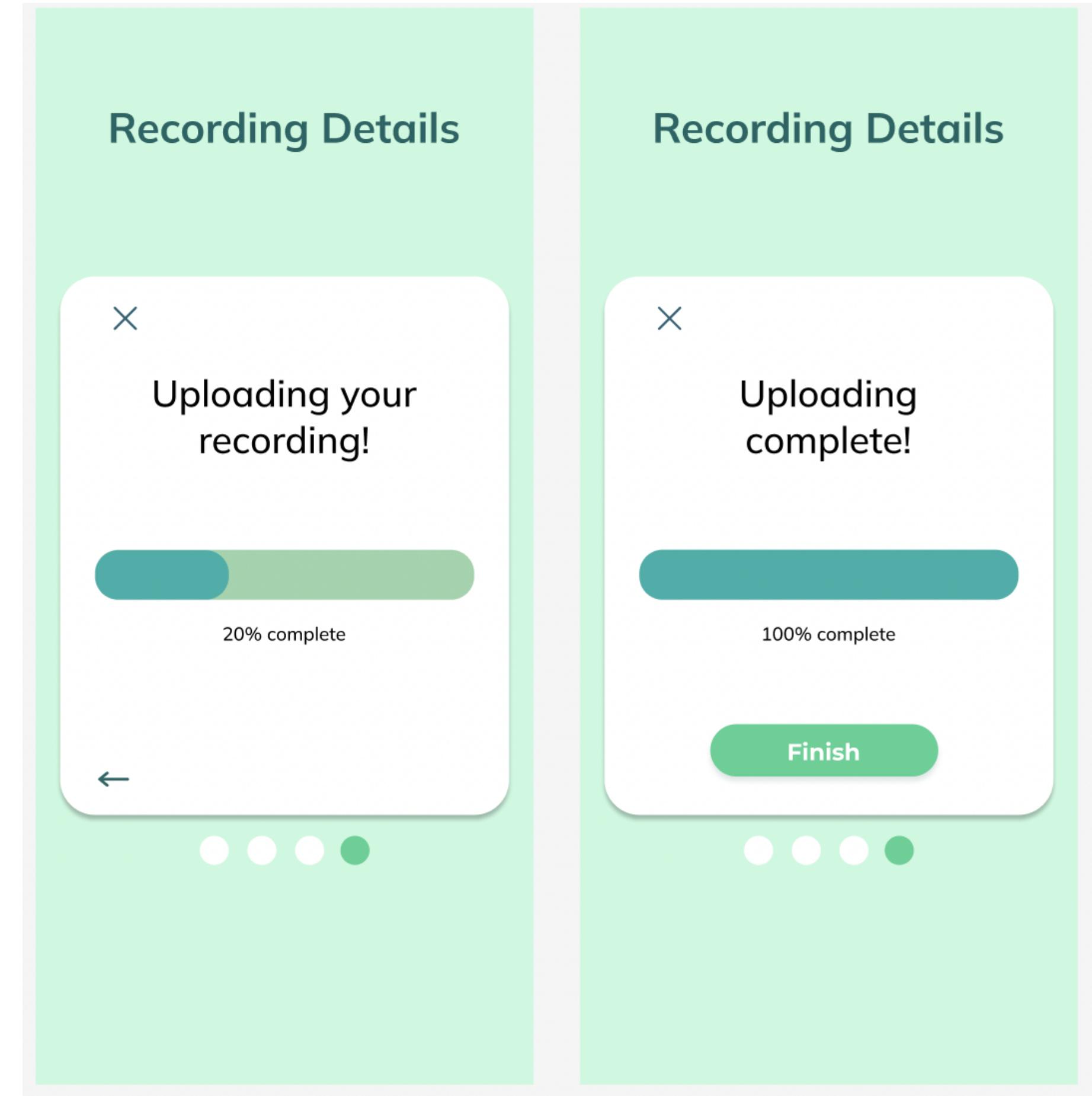
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# Presentation Outline

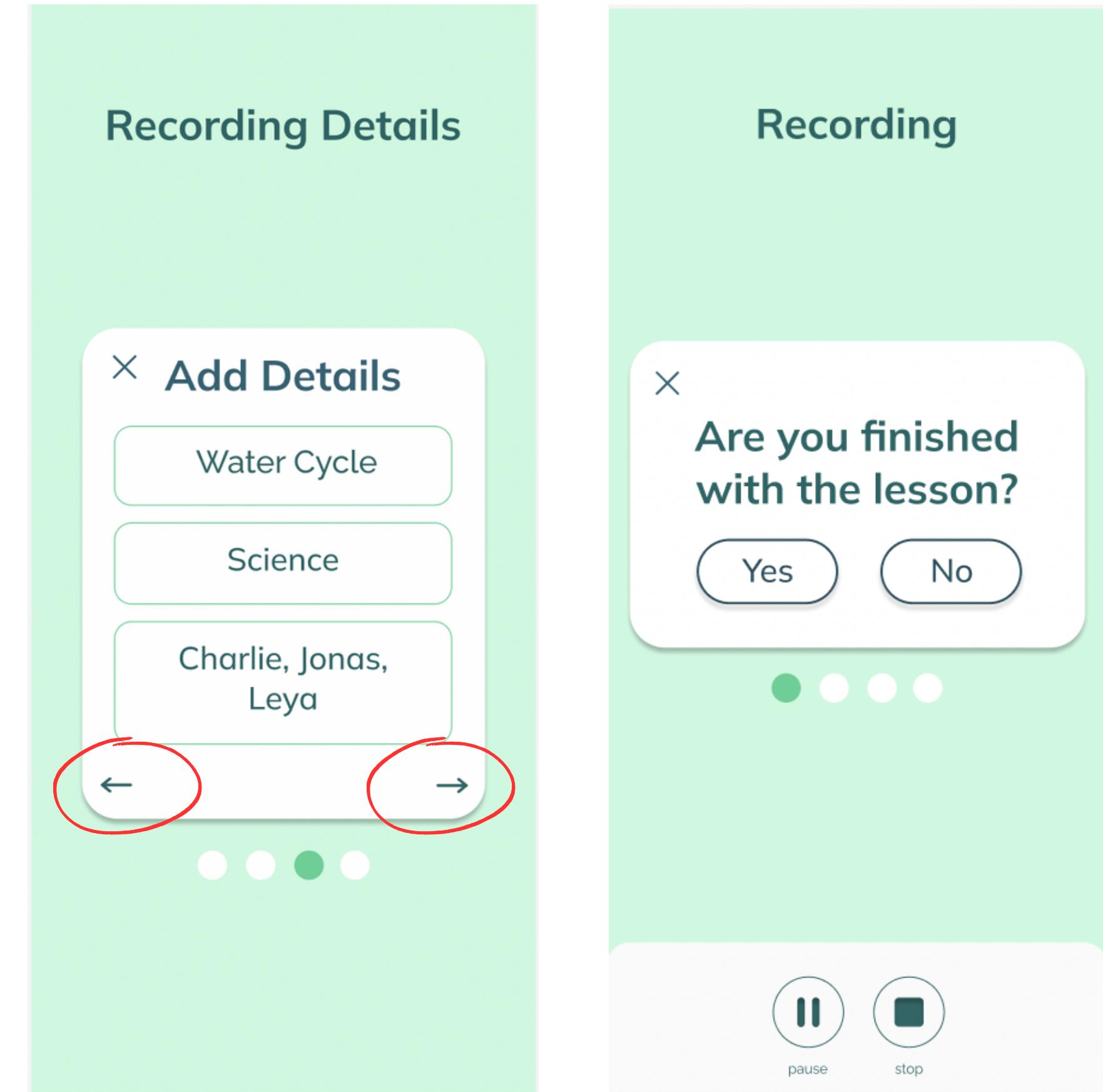
1. Design changes from heuristic evaluation
2. User testing
3. Results and future plans

# Design Changes

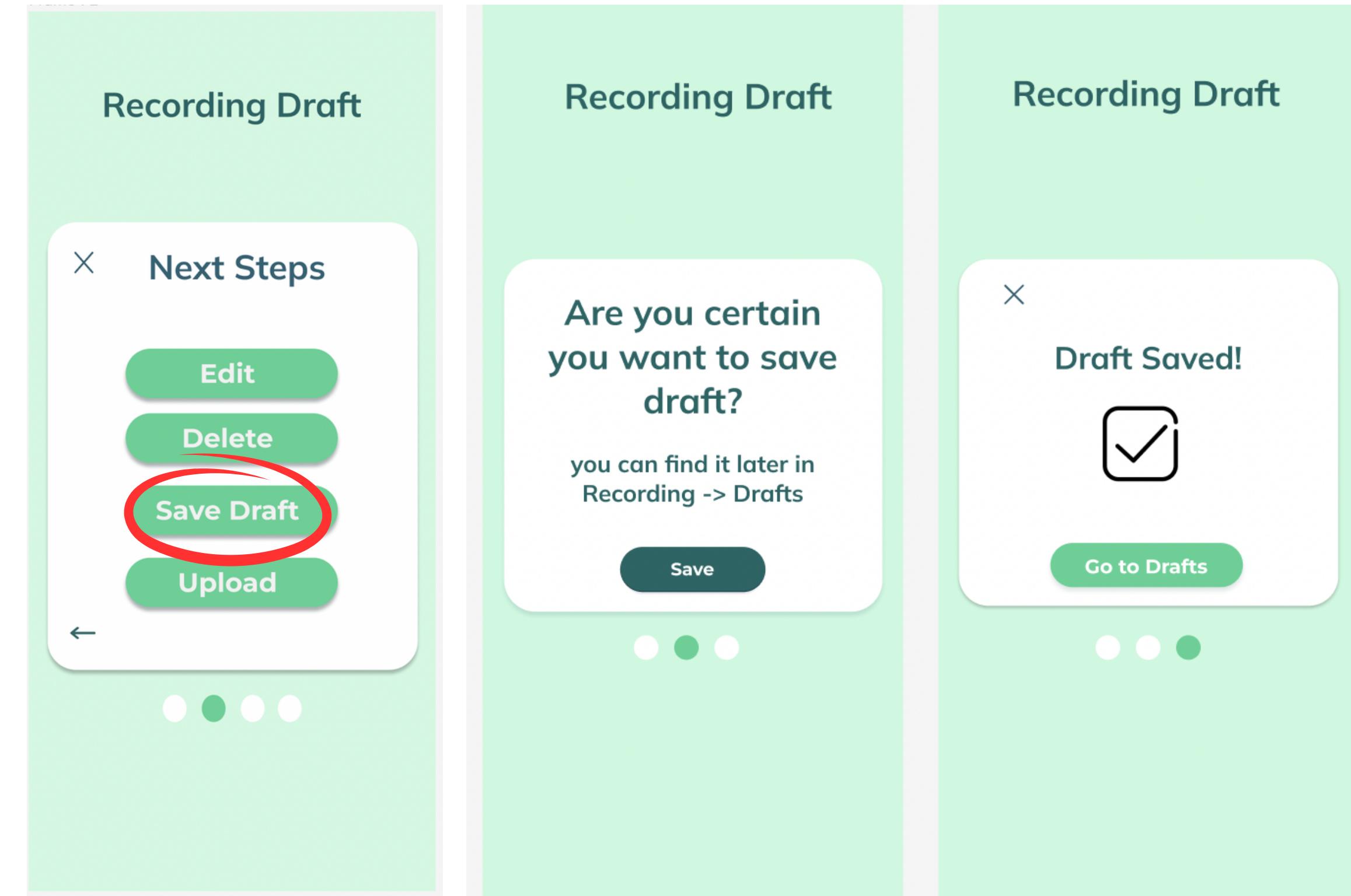
# Added a progress bar during lesson transcript upload



# Greater user control and app confirmation



# Added feature for saving lesson drafts



# Clarified transcript edit buttons

The figure consists of three vertically stacked screenshots of a mobile application interface, all titled "recording5" and labeled "Edit".

- Screenshot 1:** Shows the full transcript. At the bottom, there are two buttons: "Edit" and "Finish". Both are circled in red.
- Screenshot 2:** Shows the transcript after a portion has been deleted. The deleted text "water cycle begins with evaporation. Do you know what evaporation is? It's okay if not, we'll learn about it together today!" is highlighted with a red oval. Below this, the timestamp "12:53" and the text "[ THIS TEXT WAS DELETED]" are visible.
- Screenshot 3:** Shows the transcript after the deletion. The timestamp "12:53" and the deleted text "[ THIS TEXT WAS DELETED]" are now highlighted with a red oval. At the bottom, there are two buttons: "Edit" and "Confirm".

Frame 79

Are you certain  
you want to  
delete?

Once you delete, this portion of the transcript will not  
be recoverable. There is no way to undo deletion.

Not now

Delete

# Accessibility: Text-to-Speech functionality

The image shows two screenshots of an AI Assistant interface. The left screenshot displays a green message from 'Seedling' with a text-to-speech icon (Speaker icon with a dot) circled in red. The right screenshot shows a conversation between 'Seedling' and a user, with both messages containing text-to-speech icons circled in red.

**AI Assistant**

**Seedling**

Hi there! I'm Seedling, and I'm here to answer any and all questions you may have about homeschooling! What can I help with today?

**Seedling**

Hi there! I'm Seedling, and I'm here to help you think about your lesson on photosynthesis. Do you have any questions?

I want to do a hands-on lesson about photosynthesis, but I don't have any ideas. Can you please help me?

**Seedling**

That's a great question! I recommend doing an experiment where you take several plants and put them in different environments such as outside, in the closet, etc. and observing the differences in outcome for the plants.

Chat with AI assistant

Chat with AI assistant

# AI Assistant information page

## Using Seedling

1. Seedling is an AI Assistant here to give you personalized assistance!
2. Ask Seedling any question and it will give you a tailored response and personalized recommendations
3. Specify exactly what kind of outputs you want from Seedling, such as:
  - a. “give me a bullet-pointed list of 5 websites that talk about Photosynthesis
4. Press the speaker icon to listen to messages from Seedling.

**Back**

# Lesson transcript in report

← Lesson Report

## Photosynthesis

Student: Student 1  
Instructor: Parent 1

[View Transcript](#) (Red circle)

[Expand all](#) [Collapse all](#)

Summary ▾

What Worked ▾

Content Suggestions ▾

Teaching Methodology ▾

Additional Resources ▾

Chat with AI assistant (Microphone icon)

Home Document Chat Microphone Person

# User Testing

# Participants



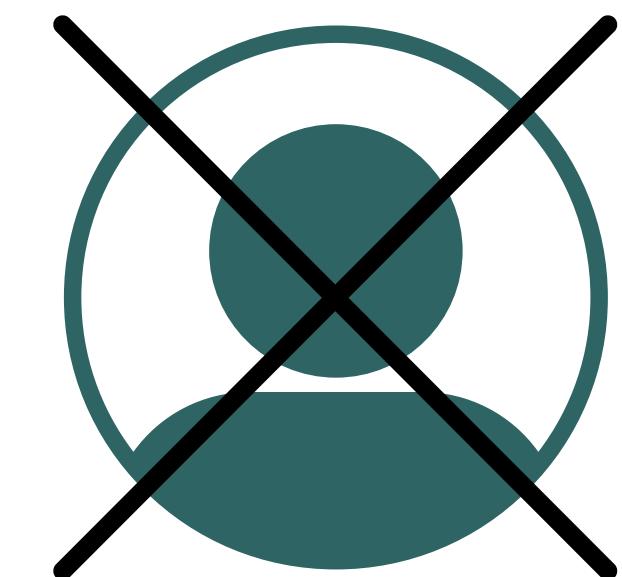
Homeschooling parent  
Software Manager  
No education background  
2 kids currently homeschooling

Personal network  
Virtual Interview



Ex-homeschooled student  
Volunteer Coordinator  
Homeschooled K-6

Personal network  
In-person interview



Ex-homeschooled student  
Current student  
Homeschooled K-12

Personal network  
In-person interview  
  
(Rescheduled)

# Tasks

## Evaluating UI/UX and functionality



Task 1: Save tip and engage with content



Task 2: Record a lesson, edit a transcript, and upload



Task 3: Find a filtered lesson report and engage with the content



Task 4: Engage and ask questions to the AI assistant

# Results & Future Plans

# Key Takeaways

- Including encouragement and motivation is critical
- Information overload
  - Tip of day
  - Lesson report
  - Non-text information helpful
- Answering open-ended questions in report
  - What's next?
  - What did we miss?
- Lesson recording difficult for some homeschooling styles

"It's helping with the open-endedness of teaching and helping catch things parents miss and things to go back to." - P1



# Planned Design Changes

- Tip pages
  - Increased encouragement
  - Fewer words (information hierarchy)
- Recording pages
  - Allow for editing transcript (not just deletion)
- Lesson report pages
  - Emphasize affirmation
  - Consider non-text info (images, diagrams)
- AI assistant chat
  - More example prompts
- Change bottom navigation bar
  - Remove profile page - redundant information

# Questions & Concerns

- Tailor the tone and types of feedback?
  - Critical for user retention
- Platform frictionless for varying technical literacy?
- AI hallucination and novelty dissuade users?
- Should we narrow user scope or cater broadly?
  - Formal lessons vs informal education
- How to create useful and affirming notifications?

# Thank you!

Questions? Comments?

# Appendix

Figma prototype:

<https://www.figma.com/file/oCOuGJZPxVFXkWoMFWCuvR/CS377E?type=design&node-id=872-13207&t=fEW0vvAIsy8GjrcO-0>